

Anti-PGC1 alpha PPARGC1A Rabbit Monoclonal Antibody

Catalog Number: M00236

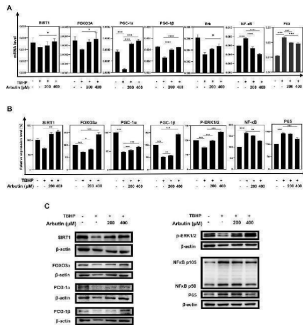
Overview

Product Name	Anti-PGC1 alpha PPARGC1A Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PGC1 alpha PPARGC1A Rabbit Monoclonal Antibody catalog # M00236. Tested in WB application. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Monoclonal AOBC-16
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UBK2

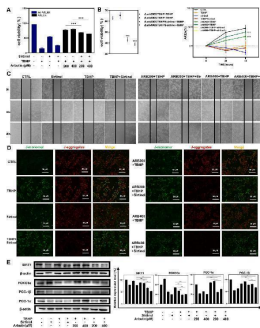
Technical Details

Immunogen	A synthesized peptide derived from human PGC1 alpha
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 ICC/IF 1:50-200

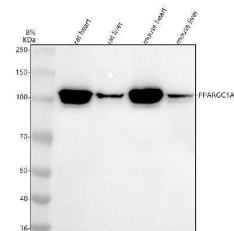
Anti-PGC1 alpha PPARGC1A Rabbit Monoclonal Antibody (M00236) Images



Arbutin exerted protective effects via the SIRT1/FOXO3a/PGC-1alpha/beta and NF-kappaB/p65 signaling pathway. (A) qRT-PCR was used to measure transcript levels of the SIRT1/FOXO3a/PGC-1alpha/beta pathway and NF-kappaB/p65 genes. TBHP decreased the expression of SIRT1, FOXO3a, and PGC-1alpha/beta and increased the expression of NF-kappaB/p65, whereas mRNA levels in the groups that were pretreated with Arbutin showed reversed trend. (B) western blots were conducted to detect the proteins level of SIRT1, FOXO3a, PGC-1alpha/beta, p-ERK, and NFKB1/P65. (C) imagej was used to analyze the relative expression level of the proteins mentioned above (* p < 0.05, ** p < 0.01, *** p < 0.001, n = 3, bars represent SD). Index in PubMed under a CC BY license. PMID: 36051689

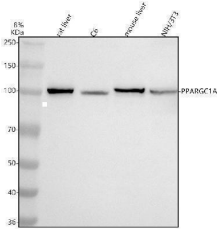


Sirtinol diminished the capability of Arbutin to assist ARPE-19 cells to defend against oxidative stress. (A) (B) flow cytometric analysis showed that cells treated with only sirtinol, TBHP, cotreated with sirtinol, and TBHP displayed decreased cellular viability. However, sirtinol conduction diminished the protective capacity of Arbutin. (C) ARPE-19 cells were seeded in a 24-well plate and applied wounds at the confluence of 80%. The cells were pretreated with or without Arbutin and then subjected to TBHP (350 μM); meanwhile, cells in certain groups were incubated with sirtinol. Photos were taken at different time points post distinct treatments. (D) fluorescence images observed that ARPE-19 treated with Arbutin while subjected to sirtinol and then exposed to TBHP was unable to recuperate ΔΨm. (E) with sirtinol administration, the protein levels of the SIRT1/FOXO3a/PGC-1alpha/beta pathway decreased in the presence of Arbutin (* p < 0.05, ** p < 0.01, *** p < 0.001, n = 3, bars represent SD). Index in PubMed under a CC BY license. PMID: 36051689

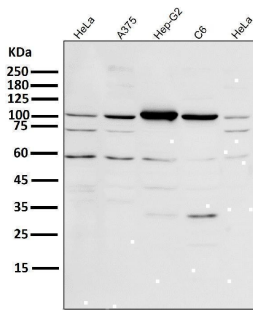


Western blot analysis of PGC1 Alpha/PPARGC1A using anti-PGC1 Alpha/PPARGC1A antibody (M00236). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat heart tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse heart tissue lysates, Lane 4: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PGC1 Alpha/PPARGC1A antigen affinity purified monoclonal antibody (M00236) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced

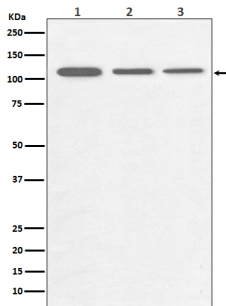
Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PGC1 Alpha/PPARGC1A at approximately 113 kDa. The expected band size for PGC1 Alpha/PPARGC1A is at 91 kDa.



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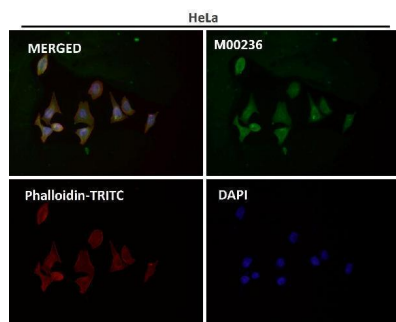


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of PGC1 alpha/beta expression in (1) HeLa cell lysate; (2) NIH 3T3 cell lysate; (3) C6 cell lysate.

Immunofluorescent analysis using the Antibody at 1:150 dilution.



1 Publications Citing This Product

1. PubMed ID: 10.3390/ijms20246128, Expression and Secretion of an Atrial Natriuretic Peptide in Beige-Like 3T3-L1 Adipocytes

Visit bosterbio.com/anti-pgc1-alpha-rabbit-monoclonal-antibody-m00236-boster.html to see all 1 publications.

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